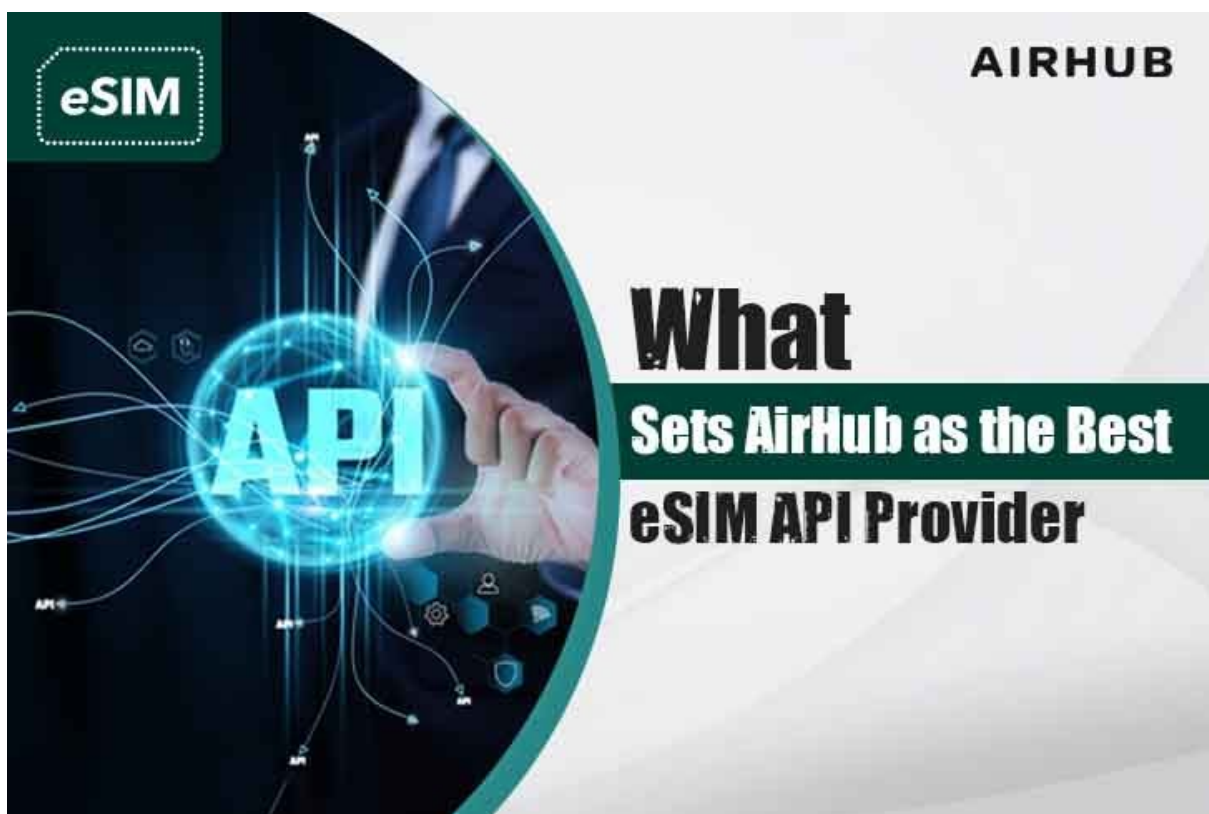


eSIM Access API to start eSIM Business with Airhub eSIM Provider

The emergence of eSIM (Embedded SIM) technology has changed device connection to mobile networks. ESIMs, unlike conventional SIM cards, permit remote activation and administration, hence removing the requirement for actual swaps. Integrating [eSIM API](#) solutions will simplify processes, improve user experiences, and provide fresh income sources for companies and developers.

Using an [eSIM API provider](#) streamlines the process of provisioning and maintaining eSIM-enabled devices regardless of your position as MVNO (Mobile Virtual Network Operator), telecom provider, or IoT developer. This article looks at eSIM APIs for iOS and Android, their salient characteristics, and how companies may use them.



What is an eSIM API?

An [eSIM API](#), or application programming interface, is a collection of protocols allowing companies, developers, and service providers to include eSIM management capabilities into their systems. This enables users to:

- Activate eSIM profiles from far distances.
- Go between carriers without changing actual SIMs.
- Control several eSIM profiles on one device.
- Provide IoT, mobile applications, and corporate solutions flawless [eSIM API access](#).

Essential for telecom and digital service providers, APIs let companies automate eSIM activation, maximise data utilisation, and increase consumer comfort.

Why Businesses Need eSIM APIs

Integrating [eSIM API solutions](#) into your platform can provide numerous benefits:

● Automated eSIM Provisioning

Remote supply and activation of eSIMs by businesses eliminates the need for consumers to visit shops or manually input activation information.

● Seamless Carrier Switching

By letting consumers migrate between many networks depending on cost, coverage, or speed, seamless carrier switching [eSIM APIs](#) improve connection and save costs.

● Enhanced User Experience

By including [eSIM API access](#), mobile apps let consumers activate and control plans with only a few clicks.

● Global Connectivity for IoT

Without depending on actual SIMs, global connectivity for IoT devices such smartwatches, GPS trackers, and industrial sensors may remain linked globally.



Key Features of eSIM API Solutions

When choosing an [eSIM API provider](#), businesses should look for the following features:

- Remote activation, suspension, or deletion of eSIM profiles under profile management
- Real-time provisioning links devices to networks instantly.
- Multi-carrier support allows one to access many network providers.
- Encrypted methods help to protect eSIM activation.
- Monitoring use helps one to track and evaluate data consumption.
- Automate payments and plan renewals under billing and subscription control.

These capabilities let developers combine iOS and [Android eSIM APIs](#) to create seamless mobile and IoT apps.

How eSIM APIs Work on Different Platforms?

1. Android eSIM API

Google provides an [Android eSIM API](#) that allows developers to:

- Provision eSIM profiles programmatically
- Manage multiple eSIM profiles on supported devices
- Enable automatic carrier switching based on user preferences

The LPA (Local Profile Assistant) of Android manages [eSIM access API](#) and handles eSIM activation, therefore facilitating app requests and management of eSIM access.

Example Use Case:

- A travel app may use Android eSIM API to provide on-demand local data plans to visitors arriving in a foreign nation.

2. iOS eSIM API

Apple's [iOS eSIM API](#) enables:

- Remote SIM provisioning via QR codes or app integration
- Dual SIM functionality (eSIM + physical SIM)
- eSIM profile switching without rebooting the device

Apple restricts direct [eSIM access API](#) in third-party apps, but mobile carriers can integrate **iOS eSIM API** for seamless activation via carrier apps.

Example Use Case:

- A telecom provider can embed [iOS eSIM API](#) in its app, allowing users to sign up and activate eSIM plans directly from their iPhone.



Choosing the Right eSIM API Provider

When selecting an [eSIM API provider](#), consider the following factors:

- Network Coverage – Does the API support multiple carriers globally?
- Ease of Integration – Are there clear SDKs and developer resources?
- Security & Compliance – Does it follow GSMA eSIM standards?
- Scalability – Can it handle a growing number of devices?

Use Cases of eSIM API in Various Industries

Telecom & MVNOs

- Enable seamless eSIM activation for mobile customers
- Offer on-demand eSIM plans for short-term usage

Automotive & IoT

- Power connected cars with automatic network switching
- Keep GPS trackers & fleet management devices online globally

Travel & Roaming Services

- Provide local eSIM plans for international travelers
- Reduce roaming costs by integrating [eSIM access API](#)

Enterprise & Remote Work

- Equip employees with secure eSIM connectivity for remote work
- Automate corporate mobile plan provisioning

Final Thoughts

Including [eSIM APIs](#) into telecom systems, IoT devices, and mobile applications opens fresh connection opportunities. **eSIM reseller APIs**, Android eSIM APIs, and **iOS eSIM APIs** let companies streamline SIM provisioning, increase user experience, and expand worldwide coverage. Maintaining competitiveness in the digital connection scene depends on having a strong [eSIM API provider](#) as eSIM use increases.

Join [Airhub](#) eSIM App's Partner program to start your eSIM Business globally.